

University of California
Lawrence Berkeley National Laboratory - EETD
One Cyclotron Road
Mailstop 90-2000
Berkeley, CA 94720
mtaylor@lbl.gov
mataylor@berkeley.edu
office: 510-486-4257
fax: 510-225-9635

Stanford University
Precourt Energy Efficiency Center
Jerry Yang & Akiko Yamazaki
Environment & Energy Building
473 Via Ortega, Room 385
Stanford, CA 94305-4206
mrtaylor@stanford.edu
cell: 510-847-1879
<http://energy.lbl.gov/staff/taylor/>

Margaret R. Taylor

Education

Carnegie Mellon University, Pittsburgh, PA

Ph.D., Engineering & Public Policy, 2001.

M.S., Engineering & Public Policy, 1998.

Dissertation: “The Influence of Government Actions on Innovative Activities in the Development of Environmental Technologies to Control Sulfur Dioxide Emissions from Stationary Sources”

Committee: David Hounshell, Edward Rubin, Linda Argote, Scott Farrow

Columbia University, New York, NY

B.A., Double Major: Environmental Science (Geochemistry), American History, 1993

Experience

Stanford University. Fall 2012-present.

Engineering Research Associate, Precourt Energy Efficiency Center.

Lawrence Berkeley National Laboratory (LBNL). May 2010-present.

Project Scientist. July 2011-present.

- Expertise in energy/environmental policy and innovation.

Faculty Scientist. May 2010-June 2011.

University of California, Berkeley (UCB). January 2002-present.

Research affiliate. Berkeley Roundtable on the International Economy. Sept. 2011-present.

Associate director and executive committee member. NSF-Funded Center of Integrated Nanomechanical Systems (COINS) at UCB. 2008-present.

- Societal and environmental impact research.

Affiliate. Boalt Hall School of Law. 2008-present.

- Center for the Study of Law and Society.
- California Center for Environmental Law and Policy (now Center for Law, Energy, and the Environment).

Affiliate. Energy and Resources Group. 2003-present.

Assistant professor. Goldman School of Public Policy (GSPP). January 2002-June 2011.

- Teaching focus: policy analysis, innovation, environmental policy & management.
- Faculty co-chair. Center for Environmental Public Policy. 2008-11.
- Affiliate. NSF Integrated Graduate Education Research and Training (IGERT) Program in Politics, Economics, Psychology, and Public Policy. 2008-11.

Applied Solutions. Member, board of directors. September 2010-present.

Non-profit with a mission to provide finance mechanisms and a shared forum for local governments to advance energy sovereignty, economic stability, and resilient infrastructure.

Carnegie Mellon University, Pittsburgh, PA. Post-doctoral researcher. 2001.

RAND Corporation, Pittsburgh, PA. Occasional consultant with emphasis on science, technology, and environmental policy. Engagement began May 2000; currently inactive.

International Institute for Applied Systems Analysis (IIASA), Young Scientists Summer Program (YSSP). Laxenburg, Austria. 1998.

Research on international policy and patenting activity in pollution control technology.

Dewey Ballantine (merged into Dewey & LeBoeuf) Washington, D.C. 1994-5.

Analyst on legal and policy issues related to international trade, competitiveness, energy, and environment. Capitol Hill experience (e.g., Semiconductor Industry Association).

Lamont-Doherty Earth Observatory, Columbia University Palisades, NY. 1993.

Conducted and supervised water sampling and chemical analysis for gas exchange experiment re: PCBs in the Hudson River. Monitored nutrient budgets of NYC waterways.

Honors and Awards

Nominated to be a Lead/Coordinating Author of the Intergovernmental Panel on Climate Change Fifth Assessment Report, Working Group III, February 2010.

Semi-Finalist, Kauffman Fellows Program. 2009

Finalist, Prytanean Faculty Award, UC Berkeley. 2007, 2006, and 2005.

Best Paper, Northern California Chapter of the Society for Risk Analysis Fall Symposium 2007. With Sharyl Rabinovici & Javiera Barandiaran.

Best Dissertation, Academy of Management Organizations and the Natural Environment Division. 2002.

Best Dissertation, Academy of Management Public and Nonprofit Division. 2001.

UC Regent's Junior Faculty Fellowship. Summer 2002.

Best Paper Peccei Award, IIASA. 1998. "Using U.S. and European Patents as a Measure of the Inventive Response to Environmental Policy Instruments in SO₂ Control."

Stephen Lee Award for Outstanding Project Course, Engineering & Public Policy. 1997.

Carnegie Scholar, Top Women Entering Engineering/Science. CMU. 1995-99.

Grants

"Assessing the Evidence regarding Renewables Policy and Innovation." Project lead, in coordination with the Clean Air Task Force. *The Hartwell Group*. Award notification June 2012. In August 2012 obtained funds from Bellwether foundation to bring on board partner in this project, ETH Zurich.

"Exploring the Dynamics of Innovation and Appliance Efficiency Standards." Project lead, with co-investigators Jim McMahon and Larry Dale. European Council for an Energy Efficient Economy (ECEEE). \$23,000 award. Funds received May 2011.

"Research-Based Risk Assessment of the Biological Toxicity of Nanowires." Co-investigator for Environmental Health and Safety NSF 2009 Supplemental Funds for COINS (PI Alex Zettl). ~\$400,000 award. Funds received September 2009.

"Sustainable Packaging: Metrics, Standards and Best Practices for Materials Processing and Utilization." One of 3 principal faculty, PI Dave Dornfeld. *Sustainable Products & Solutions Program*, UCB. 2-year, \$200,000 award. Funds received May 2008.

"The Environmental Implications of Nanotechnology." PI, *Berkeley Institute of the Environment*, UCB. *Round Table* award to fund exploratory, multidisciplinary research in new areas. \$10,000 award. Funds received January 2007.

"Climate Change and Changes in Large Technical Systems." PI, *Berkeley Institute of the*

- Environment, UCB. Round Table* award to fund exploratory, multidisciplinary research in new areas. \$5,000 award. Funds received January 2007.
- “New Transportation Fuels.” Participant with PI Alex Farrell. *Berkeley Institute of the Environment, UCB. Working Group* award for directed multidisciplinary research in new areas. \$40,000 award. Funds received January 2007.
- “Sustainable Engineering through Green Design, Manufacturing, and Social Infrastructures.” Participant with PI Arpad Horvath. Teaching proposal to the *Luce Foundation*. Award November 2006 (Revised proposal from 2003).
- “Wind energy innovation: How do individual and firm-based inventors differ in the technical merit of their inventions and innovative response to policy instruments.” PI, *California Energy Studies Program, University of California Energy Institute*. \$35,000 award. Funds received July 2004.
- “Technical Change and the Reduction of Greenhouse Gas Emissions in California.” Research area lead for *California Climate Change Center, California Energy Commission Public Interest Energy Research Program* (PI Michael Hanemann). ~\$215,000 award. Funds received 2003-2006.
- “The Effects of Government Actions on Environmental Technological Innovation in Nitrogen Oxides Emissions Control.” PI, *Junior Faculty Research Grant (UCB)* and *UC Regents Junior Faculty Fellowship*. 2002.
- “The Effect of Government Actions on Environmental Technology Innovation: Applications to the Integrated Assessment of Carbon Sequestration Technologies.” Co-investigator, PI Ed Rubin. *Integrated Assessment of Global Climate Change Research, U.S. Department of Energy Office of Science*. \$450,000 award. Funds received Fall 2000-3.
- “The Importance of Innovative Content in the Commercial Success of Individual Innovators.” Co-investigator. *Donald A. Jones Center for Entrepreneurship, CMU Tepper School of Business*. \$7,000 award. Funds received 1998.

Publications

Peer-Reviewed Journal Articles

- Taylor, M.R.**, Philbrick, M., Scanlan, L. “Designing Research to Address National Needs: The Case of Nanofibers.” Submitted, *Risk Analysis*, July 2011. Resubmission due November 30, 2012.
- Taylor, M.R. “Innovation under Cap-and-Trade Programs.” *Proceedings of the National Academy of Sciences (PNAS)*, 109 (13), March 2012.
- Taylor, M.R. “Beyond Technology-Push and Demand-Pull: Lessons from California’s Solar Policy.” *Energy Economics*, **30** (6), 2829–2854, November 2008.
- Dunphy, K., **Taylor, M.R.**, and Banfield, J. “Environmental Risks of Nanotechnology: National Nanotechnology Initiative Funding, 2000-2004.” *Environmental Science and Technology*, **40** (5), 1401-1407, March 1, 2006.
- Yeh, S., Rubin, E.S., Hounshell, D.A., and **Taylor, M.R.** “Technology Innovations and Experience Curves for NO_x Control Technologies.” *Journal of the Air & Waste Management Association*, **55**:1827–1838, December 2005.
- Yeh, S., Rubin, E.S., Hounshell, D.A., and **Taylor, M.R.** “Uncertainties in Technology Experience Curves for Integrated Assessment Models.” Accepted at the *International Journal of Energy Technology and Policy*, September 2005.
- Taylor, M.R.**, Rubin, E.S., and Hounshell, D.A. “Control of SO₂ Emissions from Power Plants: A Case of Induced Technological Innovation in the U.S.” *Technological Forecasting and*

- Social Change*, **72**: 6, 697-718, July 2005.
- Taylor, M.R.**, Rubin, E.S., and Hounshell, D.A. "Regulation as the Mother of Innovation: The Case of SO₂ Control." *Law & Policy*, **27**: 2, 348-78, April 2005.
- Dahlin, K., **Taylor M.R.**, and Fichman, M. "Today's Edisons or Weekend Hobbyists: Technical Merit and Success of Inventions by Independent Inventors." *Research Policy*, **33**: 8, 1167-1183, October 2004.
- Riahi, K., Rubin, E.S., **Taylor, M.R.**, Schrattenholzer, L., and Hounshell, D. "Technological Learning for Carbon Capture and Sequestration Technologies." *Energy Economics*, **26**: 4, 539-564, July 2004.
- Rubin, E.S., **Taylor, M.R.**, Yeh, S. and Hounshell, D.A. "Learning Curves for Environmental Technology and Their Importance for Climate Policy Analysis." *Energy*, **29**, 1551-1559, July-August 2004.
- Rubin, E.S., Yeh, S., **Taylor, M.R.**, and Hounshell, D.A. "Experience Curves for Power Plant Emission Control Technologies." *International Journal of Energy Technology and Policy*, **2** (1/2), 52-69, May 2004.
- Taylor, M.R.**, Rubin, E.S., and Hounshell, D.A. "The Effect of Government Actions on Technological Innovation for SO₂ Control." *Environmental Science and Technology*, **37** (20), 4527-4534, October 15, 2003.

Other Papers & Reports

Reviewed Conference Papers & Reports

- Taylor, M.R.**, and Fujita, K.S. "Cost-Benefit Analysis and Technological Change: Accounting for Energy Efficiency Innovation in the Regulatory Framework." LBNL report. November 5, 2012.
- Taylor, M.R.**, and Fujita, K.S. "The Path to Savings: Understanding the Federal Purchase of Energy-Consuming Products." A report to FEMP. September 17, 2012.
- Taylor, M.R.** and Fujita, K.S. "Program Potential: Estimates of Federal Energy Cost Savings from Energy Efficient Procurement." A report to FEMP. September 26, 2012.
- Taylor, M.R.**, and Fujita, K.S. "Who Buys What? How Federal Procurement of Energy Efficient Products Occurs." ACEEE Summer Study, 2012.
- Taylor, M.R.**, Fujita, K.S., Payne, C., and Sahl, A. "The Energy-Saving Power of the Purse: Understanding Acquisition under the Federal Energy Management Program." ACEEE Summer Study, August 2012.
- Taylor, M.R.**, Fujita, K.S., Dale, L., and McMahon, J. "An Exploration of Innovation and Energy Efficiency in an Appliance Industry." A Report for the European Council for an Energy Efficient Economy. March 29, 2012.
- Taylor, M.R.**, McMahon, J., Dale, L. "Characterizing the Context of Innovation in an Appliance Industry: The Case of Refrigerators." ECEEE 2011 Summer Study (biennial), theme "Energy efficiency first: The foundation of a low-carbon society." Belambra Presqu'île de Giens, France. June 10, 2011.
- Long, J.S., John, M. et. al. "California's Energy Future: The View to 2050." Working committee member. Report for the California Council on Science and Technology. May 2011.
- Taylor, M.R.**, Nemet, G., Colvin, M., Begley, L., Wadia, C., and Dillavou, T. "Government Actions and Innovation in Clean Energy Technologies: The Cases of Photovoltaic Cells, Solar Thermal Electric Power, and Solar Water Heating." *Report to the California Energy Commission, PIER Energy-Related Environmental Research*. CEC-500-2007-012. October

2007. Posted on CEC website on February 21, 2008:

<http://www.energy.ca.gov/2007publications/CEC-500-2007-012/CEC-500-2007-012.PDF>

Bedsworth, L. and **Taylor, M.R.** “Pushing Technology when it Pushes Back: Learning from California’s Zero-Emission Vehicle Program.” *California Economic Policy Report*, Public Policy Institute of California. September 2007.

Taylor, M.R., Thornton, D., Nemet, G., and Colvin, M. “Government Actions and Innovation in Environmental Technology for Power Production: The Cases of Selective Catalytic Reduction and Wind Power in California.” *Report to the California Energy Commission Public Interest Energy Research Program*. CEC-500-2006-053. June 2006. Final draft posted on CEC website http://www.energy.ca.gov/pier/final_project_reports/CEC-500-2006-053.html.

Farrell, A., **M.R. Taylor**, et. al. “The Regulation of SO₂ Emissions from Coal-Fired Boilers: A Case Study.” Chapter IV in *Environmental Regulation and Technology Innovation: Controlling Mercury Emissions from Coal-Fired Boilers*, ed. M. Tatsutani, P. Amar. Boston: NESCAUM, Sept. 2000.

Other Conference Papers & Reports

Fujita, K. S. and **Taylor, M.R.** “Achieved and Potential Energy Savings through Energy Efficient Procurement.” Technical accompaniment to report for FEMP. May 31, 2012.

Taylor, M.R. “Cap-and-Trade Programs and Innovation for Climate Safety.” Working Paper prepared for the Central Research Institute of the Electric Power Industry (CRIEPI) in Japan. Submitted June 2008, not to be made public until paper to *PNAS* clears embargo.

Taylor, M.R. “Government Actions, Innovation, and California’s Climate Policy.” Invited paper for senior California policy-makers and other AB32 stakeholders at the Carneros Innovation Dialogue hosted by Next10, *Sustainable California: Innovative Initiatives to Spur Investment in Clean Technologies*. October 17-18, 2007.

Taylor, M.R., Rubin, E.S., and Nemet, G.F. “The Role of Technological Innovation in Meeting California’s Greenhouse Gas Emission Targets.” Chapter Three in Hanemann, M. and A. Farrell, eds. *Managing Greenhouse Gases in California*. Report prepared to advise the California EPA under the auspices of the Energy Foundation and the Hewlett Foundation. 2006.

Rubin, E.S., Hounshell, D.A., Yeh, S., **Taylor, M.R.**, Schrattenholzer, L., Riahi, K., Barreto, L., and Rao, S. *The Effect of Government Actions on Environmental Technology Innovation: Applications to the Integrated Assessment of Carbon Sequestration Technologies*. A Final Report Submitted to Dr. John C. Houghton, Office of Biological and Environmental Research, U.S. Department of Energy. Award No. DE-FG02-00ER63037. January 2004.

Rubin, E.S., Hounshell, D.A., **Taylor, M.R.**, Yeh, S., Schrattenholzer, L., Riahi, K., Zhu, B., and Roehrl, R.A. *The Effect of Government Actions on Environmental Technology Innovation: Applications to the Integrated Assessment of Carbon Sequestration Technologies*. A Progress Report Submitted to Dr. John C. Houghton, Office of Biological and Environmental Research, U.S. Department of Energy. Award No. DE-FG02-00ER63037. December 2001.

Other

Barandiaran, J., **Taylor, M.R.**, and Rabinovici, S. “The Berkeley Nanoscale Materials Health and Safety Ordinance.” Guston, D., General Editor, *Encyclopedia of Nanoscience and Society*. Thousand Oaks, CA: Sage Publications. September 2010.

Taylor, M.R. and Barandiaran, J. “Muddling Through on the Cutting-Edge: How California and

the European Union are Coping with the Risks of Nanotechnology.” Draft chapter for the EU-California Regulatory Cooperation Project, UC Berkeley. 2008.

Hanemann, M., **Taylor, M.R.**, Bush, N. “Finding a Common Goal in Coal.” Unpublished Op-Ed, Fall 2007. Berkeley, CA.

Rabinovici, S., Barandiaran, J., and **Taylor, M.R.** “Local Disclosure Ordinances as Regulatory Catalysts: Early Insights from the Berkeley, California Nanoscale Materials Ordinance.” Prepared for Northern California Chapter of the Society for Risk Analysis, October 2007.

Taylor, M.R. “Using U.S. and European Patents as a Measure of the Inventive Response to Environmental Policy Instruments in SO₂ Control.” Prepared for International Institute of Applied Systems Analysis, Laxenburg, Austria. August 1998.

Ongoing Projects

Taylor, M.R. and Barandiaran, J. “From Basic Research to Self-Sufficiency and Jobs: Lessons for Science Policy from the National Science and Engineering Centers for Nanotechnology.”

Blumstein, C. and **Taylor, M.R.** “Rethinking the Energy Efficiency Gap: The Role of Producers and Intermediaries.” Abstract accepted for 2013 ECEEE Summer Study. Belambra Presqu’île de Giens, France.

Taylor, M.R. and Fujita, K.S. “Accounting for Innovation in Energy Efficiency Regulation.” Abstract accepted for 2013 ECEEE Summer Study. Belambra Presqu’île de Giens, France.

Taylor, M.R. Book review for *Public Administration* (ed. Jared Llorens, Louisiana State Univ.) on Kraft, Michael E., Stephan, Mark, and Abel, Troy D. “Coming Clean: Information Disclosure and Environmental Performance.” MIT Press, 2011. Review due 2012.

Taylor, M.R., Bedsworth, L.W., and Bush, N. “Pushing Technology when it Pushes Back: Lessons from California’s Low- and Zero- Emission Vehicle Policies.”

Taylor, M.R. and Bush, N. “Building the Bridge to Commercialization of Renewable Energy and Pollution Control Technologies: Analyzing Patenting Activity.”

Philbrick, M. and **Taylor, M.R.** “Reducing Greenhouse Gas Emissions from the Mineral-Based Construction Materials Industry: Challenges and Opportunities.”

Taylor, M.R. “Tilting at Windmills? Individual Inventors and Clean Energy Technologies and Policies.”

Huberty, M., Zhang, A., **Taylor, M.R.**, and Zysman, J. “Green Technology Choices amidst Network Effects.”

Taylor, M.R. (with Haug, M. and Gredel, D., authorship order to be determined). “Policy and the Rate and Direction of Innovation in Concentrated Solar Power.”

Taylor, M.R. *Innovation for the Environment: What Policy and Industrial Experience mean for Defeating Climate Change*. Book contract received from Resources for the Future Press 2007.

Bush, N., and **Taylor, M.R.** “Patenting Patterns in Nanotechnology.”

Barandiaran, J., **Taylor, M.R.**, and Bush, N. “Reviewing Technology Transfer Approaches in Universities and National Laboratories.”

Taylor, M.R. Exploratory work on the effect of booms and busts on technology development.

Taylor, M.R. Exploratory work on the innovative potential of traditional technologies and systems when confronted with potential changes in the policy environment.

Presentations

- “Technological Forecasting and Environmental Policy.” Society for Risk Analysis Annual Meeting 2012, San Francisco, CA. December 2012.
- “Energy and the Public Purse: Public and Private Actors in the Federal Procurement System.” Association Public Policy Analysis and Management (APPAM) Annual Meeting, Baltimore, MD November 9, 2012.
- Invited participant in “Supply Chain Coordination and Energy Efficiency Symposium” at the Johnson Foundation at Wingspread. October 22-24, 2012.
- Invited participant in “California’s Roadmap to 1.5 Million Zero-Emission Vehicles: Governor’s Office Summit on Zero-Emission Vehicles.” September 28, 2012.
- Invited participant in “Energy Efficiency Research: Setting a New Agenda.” Alfred P. Sloan Foundation. August 24, 2012.
- “Who Buys What? Understanding Federal Procurement of Energy Efficient Products.” Oral presentation at the ACEEE 2012 Summer Study. Monterey, CA. August 16, 2012.
- “The Energy-Saving Power of the Purse: Potential Savings from the FEMP Energy Efficient Product Procurement Program.” Poster presentation at the ACEEE 2012 Summer Study. Monterey, CA. August 14, 2012.
- Selected participant in AOM Content Analysis Roundtable, for research titled “The Power of the Purse: Advancing Energy Goals through Public Procurement .” August 3, 2012.
- Invited participant in UC Berkeley workshop on “Advancing Interdisciplinary Scholarship on Green Chemistry” (May 2012).
- Invited faculty for “Technical Change towards a Low-Carbon Society – The Role of Institutions and Actors.” The Fifth Swiss Federal Institute of Technology (ETH) PhD Academy on Sustainability and Technology, Tobias Schmidt, organizer, Volker Hoffmann, professor. Zurich, Switzerland. 29 January – 3 February, 2012.
- Discussant, “Evaluating Energy Efficiency and Technology Innovation.” Association Public Policy Analysis and Management (APPAM) Annual Meeting, Washington, D.C. November 3-5, 2011.
- Invited participant in biennial Sustainable Transportation meeting in Asilomar, which is sponsored by the Institute of Transportation Studies at UC Davis (August 2011)
- “*Innovation and Appliance Standards.*” Co-organizer (with co-organizer Nils Borg and participants Jim McMahon and Larry Dale) of informal session at the ECEEE 2011 Summer Study. Belambra Presqu’île de Giens, France. June 10, 2011.
- “*Characterizing the Context of Innovation in an Appliance Industry: The Case of Refrigerators.*” Presentation at the ECEEE 2011 Summer Study. Belambra Presqu’île de Giens, France. June 10, 2011.
- “*Standards, Stringency, and Innovation: Reflections on the Zero-Emissions Vehicle Program.*” Presentation at the LBNL Projects Office, Washington, D.C. February 15, 2011.
- “*Innovation and Clean Energy Policy in California.*” Presentation on the panel “The Art and Science of Innovation” at the Summit on Emerging Technologies in Energy Efficiency, held biennially by the California energy utilities, the California Energy Commission, and the California Public Utilities Commission, Sacramento, CA. November 8, 2010.
- “*Policy and Trends in Clean Tech Innovation.*” Lair of the Golden Bear, Pinecrest, CA. August 22, 2010.
- “*Lessons for Climate Stabilizing Innovation from Experience with Cap-and-Trade Programs.*”
- U.S. Department of Energy, June 23, 2010.

- University of Chicago, April 24, 2010.
 - University of Nevada, Las Vegas, April 7, 2010
 - Milano: The New School for Management and Urban Policy, March 8, 2010
 - Mills College, Program in Public Policy, February 26, 2010
 - University of California, Los Angeles, Institute of the Environment, February 19, 2010
 - University of Maryland, College Park, School of Public Policy, February 15, 2010
 - Indiana University, Bloomington, School of Public and Environmental Affairs, February 9, 2010.
 - Lawrence Berkeley National Laboratory Environmental Energy Technologies Division seminar, October 19, 2009.
 - National Renewable Energy Laboratory seminar, September 18, 2009.
- “What Policies Lead to Technology Development?”* Presentation on Symposium: “Societal Strategies for Addressing the Climate and Energy Challenge.” American Association of the Advancement of Science (AAAS) Annual Meeting, San Diego, CA. February 20, 2010.
- “Throwing Money at the Problem: R&D and Inventive Outcomes in Renewable Energy and Pollution Control.”* Presentation at the Association of Public Policy Analysis and Management Annual Meeting, Washington, DC. November 5, 2009.
- “Adapting to New Information when Driving Environmental Innovation: Lessons from California’s Advanced Vehicle Policies.”* Presentation at the USEPA National Center for Environmental Economics seminar, Washington, D.C. November 5, 2009.
- “Clean Technology Development under Cap-and-Trade Abatement Programs.”* Presentation in All-Academy Symposium: “Issues Surrounding the Emergence and Diffusion of Technologies for Renewable Energy Generation: the Emergence of Cleantech.” Academy of Management Annual Meeting, Chicago, IL. August 9, 2009.
- “Policy and Innovation in Clean Energy Technologies.”* Workshop of the International Risk Governance Council (IRGC), Scientific and Technical Council: “Regulation and the enabling and constraint of technological innovation - Two sides of the same coin.” Washington, DC. June 30, 2009.
- Panelist on “Financing Renewable Energy: New Paradigms in New Economic Times.” 2009 UC Berkeley Energy Symposium: Bold Ideas for a New Energy Landscape, February 23, 2009.
- “Cap-and-Trade Programs and Innovation for Climate Safety.”* AEA/ASSA Annual Meeting, AERE panel. January 3, 2009.
- “Muddling Through on the Cutting Edge: Policy Insights from the BNO (i.e. the Berkeley, CA Manufactured Nanoscale Materials Health and Safety Disclosure Ordinance),”* paper with Rabinovici, S. and Barandiaran, J. Presentation at the Society of Risk Analysis annual meeting, December 10, 2008.
- “Cap-and-Trade Programs and Innovation for Climate Safety.”*
- Guest lecture, Intellectual Property Seminar, Boalt School of Law, UC Berkeley. November 20, 2008.
 - APPAM Annual Meeting, Los Angeles, California. November 7, 2008.
- Panelist, Environmental Health and Safety issues of Nanotechnology.* Guest lecture, The Business of Nanotechnology class, UC Berkeley, November 4, 2008.
- “Solar Policy and Technology/Market Outcomes.”* Guest lecture, Photovoltaics class, UC Berkeley. October 28, 2008

“Market Creation Instruments and Innovation for Climate Mitigation.” Invited presentation at “A Conference on Technology Policy and Climate Change,” on panel “Prices, Regulations, and Cap-and-Trade.” Palo Alto, CA. October 17, 2008.

“Innovation for Climate Change: Learning from Experience.” Academy of Management Annual Meeting, Anaheim, CA. Professional Development Workshop on Regulation, Innovation, and Competitive Advantage. August 9, 2008.

“Muddling Through on the Cutting-Edge: How California and the European Union are Coping with the Risks of Nanotechnology.” with Barandiaran, J. Presentation and Working Paper prepared for the EU-California Regulatory Cooperation Project Workshop, UC Berkeley. February 22, 2008.

“Invention and Cap-and-Trade Programs.”

- Symposium on Intellectual Property and Entrepreneurship, 12th Annual Berkeley Center for Law and Technology (BCLT)/Berkeley Technology Law Journal (BTLJ) Symposium, UC Berkeley. March 7, 2008.
- 2008 UC Berkeley Energy Symposium: Leadership at the Nexus of Science, Policy & Business, Panel on the Influence of Policy & Law on Technical Innovation, March 7.
- UCEI Center for the Study of Energy Markets (CSEM) Seminar. December 7, 2007.

Invited participant in the *Searle Center Research Roundtable on Alternative Energy*, held at Northwestern University School of Law, April 17-18, 2008.

“Clean Tech Overview.” Guest lecture, Climate Law Class, Boalt School of Law, UC Berkeley. November 6, 2007.

Discussant, guest panel on Nano and the Environment, The Business of Nanotechnology class, UC Berkeley Haas School of Business. November 2007.

“Local Disclosure Ordinances as Regulatory Catalysts: Early Insights from the Berkeley, California Nanoscale Materials Ordinance.” Rabinovici, S., Barandiaran, J., and **Taylor, M.R.**

- Co-author (Javiera Barandiaran) presented, Nanotechnology and Occupational Health and Safety Conference, UC Santa Barbara Center for Nanotechnology in Society, November 17, 2007.
- Co-author (Sharyl Rabinovici) presented, *Northern California Chapter of the Society for Risk Analysis Fall Symposium, Berkeley, CA, October 4, 2007*. Tied for best paper.
- Co-author (Sharyl Rabinovici) presented, IGERT Program in Politics, Economics, Psychology, and Public Policy Workshop, Berkeley, CA, September 26, 2007.

“Government Actions, Innovation and California’s Climate Policy.” Presentation to senior California policy-makers and other AB32 stakeholders at the Carneros Innovation Dialogue hosted by Next10, “Sustainable California: Innovative Initiatives to Spur Investment in Clean Technologies.” October 18, 2007.

“Policy and Climate-Friendly Innovation.”

- Lair of the Bear, July 22 & 24, 2007.
- Carl Linnaeus Tercentenary Commemoration Symposium, UC Berkeley. May 17, 2007.

“Cap-and-Trade Programs and Climate-Friendly Innovation”

- Testimony to Environmental Justice Committee advising the California Air Resources Board on AB32 implementation. March 15, 2007.
- Center for Information Technology Research in the Interest of Society (CITRIS) Research Exchange, UC Berkeley, March 14, 2007.

“Government Actions and Innovation in Clean Energy Technologies.”

- Invited presentation at Stanford Environmental Workshop, March 5, 2007
 - Invited presentation at University of Minnesota Hubert H. Humphrey Institute of Public Affairs, Minneapolis, Minnesota. November 1, 2006.
- “Cap and Trade Programs and Innovation.”* Berkeley Conference on Cap and Trade as a Tool for Climate Change Policy: Design and Implementation. February 23, 2007
- “Solar Policy and Technology/Market Outcomes.”* Invited Speaker, Photovoltaics Technology Development & Policy Workshop. Climate Policy Project of the Socio-Economic Research Center at the Central Research Institute of the Electric Power Industry (CRIEPI) in Japan. December 14, 2006.
- “Innovation for the Environment: What Policy and Business Experience mean for Defeating Climate Change.”* Invited Speaker, Climate Policy Project of the Socio-Economic Research Center at the Central Research Institute of the Electric Power Industry (CRIEPI) in Japan. December 12, 2006.
- Discussant, Panel on Regional Economic Development and Science and Technology Policy. APPAM Annual Meeting, Madison, Wisconsin. November 4, 2006.
- “California Driving Change: State Influence on the Development of Clean Car Technology.”* Co-author (Louise Bedsworth) presented, APPAM Annual Meeting, Madison, Wisconsin. November 2, 2006.
- “Solar Policy History: An Overview of Government Actions in the U.S., Germany, and Japan”* Guest lecture, Photovoltaics class, UC Berkeley. October 24, 2006.
- “Policies to Promote Innovation and Investment in Clean Technology.”* Climate Change Policy Workshop in State Capitol Building, Sacramento, CA. May 19, 2006.
- “Government Actions and Innovation in Clean Energy Technologies: Lessons from Case Studies.”* Workshop on Technological Change and the Environment, March 25-26, 2006 at Dartmouth College. Sponsored by the Department of Energy and Dartmouth College. Organized by Karen Fisher-Vanden.
- After dinner remarks.* Goldman School of Public Policy Environmental Policy Group Second Annual Student-Faculty-Alumni Dinner. March 17, 2006.
- “The Path to Attaining Clean Air in California.”* UC Berkeley Conference on California and the Future of Environmental Policy. Presentation on Air Pollution Panel. February 16, 2006.
- “The Interaction between Policy and Innovation in Clean Energy Technologies.”* Presented with Greg Nemet at the USAEE/IAEE Session, Annual Meeting, Allied Social Science Associations. Boston, MA, January 7, 2006.
- “Policy and Innovation in Environmental Technology: Lessons for Climate Change.”*
- Science, Technology, and Engineering Policy Group. Kickoff seminar. December 1, 2005.
 - Berkeley Innovation Seminar, November 9, 2005.
 - 2nd Annual Climate Change Research Conference and 1st Scientific Conference, West Coast Governors’ Global Warming Initiative, Sacramento, CA. September 15, 2005.
- “Government Actions and Innovation in Clean Energy Technologies: Lessons from Case Studies.”* U.S.E.P.A. Environmental Technology Council Brown Bag Series (teleconference with national attendance). October 6, 2005.
- “Public Policy and Innovation: Cases of Environmental Technologies for Power Production.”* UC Berkeley workshop on “Energy and Sustainable Growth in California: New Horizons for Innovation and Adoption.” Sponsored by the Center for Sustainable Resource Development and the Giannini Foundation. April 22, 2005.

- "The GSPP Philosophy on Teaching Writing and Public Speaking Skills to MPP Students."*
Roundtable on Teaching Oral and Written Communication Skills to Policy Students.
APPAM Annual Meeting, Atlanta, Georgia. October 28-30, 2004.
- "Policy and Innovation in Environmental Technologies for Power Production: The Cases of FGD for SO₂ Control, SCR for NO_x Control, and Wind Power"*
- GSPP Center for Environmental Public Policy Seminar. April 20, 2005.
 - Guest Lecture, Science and Public Policy class at GSPP. March 3, 2005.
 - APPAM Annual Meeting, Atlanta, Georgia. October 28-30, 2004.
 - University of California Energy Institute Seminar, October 2004.
 - Poster presentation, Gordon Research Conference on Science and Technology Policy, Big Sky, Montana. August 15-20, 2004.
- Organizer. Panel "Links Between Technical Innovation and Climate Policy." APPAM Annual Meeting, Atlanta, Georgia. October 28-30, 2004.
- "Characterizing Trends in Technological Innovation for Pollution Control."* National Academy of Sciences, National Research Council Committee on the Effects of Changes in New Source Review Programs for Stationary Sources of Air Pollutants. July 14, 2004.
- "Policy and Innovation in Environmental and Renewable Energy Technologies."* Invited presentation at the Electric Power Research Institute (EPRI) to Chauncy Starr and Rick Rudman. July 7, 2004.
- "Policy, Diffusion, and Experience Curves."* Annual Meeting of the International Energy Workshop. Jointly organized by EMF/IEA(ETSAP)/IIASA. Paris, France. June 22-24, 2004.
- "Emissions Abatement Technology Innovation and Diffusion."* First Annual Conference on Climate Change, Sacramento, CA. June 9-10, 2004.
- "Policy Analysis and Internship Opportunities for Board Member Involvement in the GSPP Core Curriculum."* Board of Advisors, Goldman School of Public Policy. May 2004.
- "The Effect of Government Actions on Innovation in SO₂ Control Technology."*
- Energy and Resources Group Seminar, October 29, 2003.
 - Open Meeting of the Human Dimensions of Global Change. Montreal, Canada. October 2003.
- "Collaboration in a Pollution Control Research Network Influenced by Repeated Government Actions."* Academy of Management Annual Meeting, Seattle, WA. August 2003.
- "The Effect of Government Actions on Innovation in Environmental Control Technology."* Corporate Environmental Performance & the Effectiveness of Government Interventions Workshop, June 2003.
- "The Technical Merit and Success of Inventions by Independent Inventors."* Dahlin, K., **M.R. Taylor**, M. Fichman.
- Co-author (Kristina Dahlin) presented, International J. A. Schumpeter Society, 10th ISS Conference. *Innovation, Industrial Dynamics and Structural Transformation: Schumpeterian Legacies*. Milan, Italy. June 2004.
 - Co-author (Kristina Dahlin) presented, Center for European Economic Research Workshop on Empirical Economics of Innovation and Patenting. Mannheim, Germany. March 2003.
- "Experience Curves for Environmental Technology and their Relationship to Government Actions."* Rubin, E.S., **M.R. Taylor**, S. Yeh and D.A. Hounshell
- Co-author (Ed Rubin) presented, Joint EU EXTOOL-IEA EXCETP6 Workshop on Experience Curves: A Tool for Energy Policy Analysis and Design. Paris, France.

- January 2003.
- Co-author (Ed Rubin) presented, 6th International Conference on Greenhouse Gas Technologies. Kyoto, Japan. October, 2002.
- “*Effect of Government Actions on Learning Rates for Environmental Technologies.*”
International Energy Workshop, Stanford, CA. June 2002.
- “*The Effect of Government Actions on Technological Innovation for SO₂ Control.*”
Featured luncheon speaker. U.S.EPA/EPRI/DOE Combined Utility Air Pollution Control Symposium, August 2001.
- “*The Influence of Government Actions on Technological Change in Sulfur Dioxide Control.*”
 - Board of Advisors, Goldman School of Public Policy. May 2002.
 - Innovation Seminar, Haas School of Business. April 2002.
 - Goldman School of Public Policy, University of California, Berkeley. February 2001.
 - RAND Corporation. Washington, D.C. March 2000.
 - Yale School of Management. New Haven, CT. March 2000.
 - The Maxwell School, Syracuse University. Syracuse, NY. January 2000.
 - Woodrow Wilson School, Princeton University. Princeton, NJ. November 1999.
- “*Innovative Content as a Predictor of Success for Individual Inventors.*”
Dahlin, K., **M.R. Taylor**, and M. Fichman. Co-author (Kristina Dahlin) presented, the Academy of Management Annual Meeting, Toronto, CA. August 2000.
- “*Using Patents to Measure Inventive Response to Environmental Policy Instruments.*”
Symposium on Measuring Tech. Change, AOM Annual Meeting, San Diego, CA. August 1998.
- “*Innovation in Environmental Technology*”
 - NSF Integrated Study of Human Dimensions of Global Change Center mtgs. CMU. 1997-99
 - Greening of Industry Network International Conference. U.C. Santa Barbara. November 1997.

Media

- Korean TV interview. Expert in story on cap-and-trade programs. November 5, 2012.
- Coverage in multiple outlets in connection with the publication of *PNAS* paper on Innovation under Cap and Trade Programs in March 2012.
 - Article subject of LBNL press release, media feed, featured on home page. Also covered in EETD internal communications periodicals.
 - Among others, article covered by Grist, Climate Wire, OurEnergyPolicy, Solar Feeds, Ars Technica, EnergyBoom Finance, Legal Planet
 - Discussed article with Andrew Revkin and Matt Wald of *New York Times*.
 - Op-ed by Fabian Nunez in *Sacramento Bee* related to article
- San Francisco CBS Channel 5 News at 11:00 pm. Expert in story on use of nanoparticles in commercial friers to reduce “bad” fats. Sun. Nov. 19, 2006.
- Pelley, J. “California law sends signal to coal power.” *Environmental Science and Technology Policy News*. October 24, 2006.
- Dornhelm, R. “New test promises safe fish faster.” *Marketplace* (on National Public Radio), Mon. July 24, 2006.
- San Francisco FOX Channel 2 News at 10 pm. Expert in story on heatwave. Tues. June 20, 2006.
- San Francisco CBS Channel 5 News at 5:00 pm. Expert in story on nanoparticles in sunscreens

with HealthWatch reporter Kim Mulvihill, M.D. Tues. May 16, 2006.

Peralta Colleges Television (PCTV). Panelist in three segments of election night coverage. *Comcast Cable Channel 27 in Alameda and Berkeley/Channel 28 in Emeryville, Oakland and Piedmont*. Tuesday, November 2, 2004, 8:00-11:00 pm.

Bowman, C. "Are power plants crying wolf over lawsuit?" *Sacramento Bee* (Front page), Mon., August 2, 2004.

Krasny, M. "U.S. Losing Dominance in Science." Guest with Daniel Greenberg and Stephen D. Nelson. *KQED Forum*, Tues., May 4, 2004, 9:00 am.

Johnson, J. "Getting to Clean Coal." *Chemical and Engineering News* (Cover story), Vol. 82, No. 8. February 23, 2004.

Teaching Experience

Instructor, Advanced Policy Analysis. GSPP. Spring 2004-05, 2007, 2009-11.
Graduate student seminar emphasizing independent policy analyses for individual clients.
Student Becky Lo Dolce won the 2009 Smolensky award for best APA.

Creator and Instructor, Environment and Technology from the Policy and Business Perspective. GSPP. Fall 2004, 2006-10.
Adv. undergrad./grad. student environmental policy course. Course credit counts toward UC Berkeley's first graduate certificate program, "Engineering and Business for Sustainability," with initial funding by the Luce Foundation. Approved as official UCB course August 2008.

Co-Instructor, Introduction to Policy Analysis. GSPP. Spring 2002-07, 2009.
Graduate student project course emphasizing teamwork and real-world policy analysis.

Creator and Instructor, "Clean Energy Technology and Innovation." January 2006.
Intensive training program for senior executives in Mexico's Federal Electricity Commission (CFE). Mexico City, Mexico.

Co-Instructor, Introduction to Public Policy Analysis. GSPP. Fall 2002.
Upper-level undergraduate course in theoretical & practical aspects of public policy.

Faculty Supervisor, DeCal Course, "'The West Wing' and Public Policy." GSPP 2003-05.

Graduate, Summer Faculty Technology Program. U.C. Berkeley. Summer 2002.

Teaching Development Program Graduate, Eberly Center for Teaching Excellence, CMU. Fall 1999. Involved classroom teaching assessment and training.

Head Teaching Assistant, Introduction to Engineering & Public Policy, CMU. Spring 1999.
Course on safety, environmental, and energy issues pertaining to automobiles.

Manager, Project Course: "Reclamation & Sustainable Development of a Brownfield." Spring 1997. Co-taught adv. undergrad. and grad. students; helped write & edit 200+ page report.

CD-ROM Creator, Reformulated Gasoline for Primary School Students. Spring 1996.
Created educational software about engineering and environmental issues of gasoline.

Advising

PhD committee for Jeff Crosby, Mechanical Engineering. Agreed in May 2011 to serve on qualifying exam committee for Fall 2011 or Spring 2012.

PhD committee for D.J. Gaker, Civil Engineering. Served on orals committee, May 2011.

PhD committee for Mark Philbrick, Environmental Science, Policy and Management, UC Berkeley. Completed August 2010. *Operationalizing Anticipatory Governance: Steering Emerging Technologies Towards Sustainability*. Also served on qualifying examination committee, Spring 2007.

PhD committee for Nathaniel Bush, Goldman School of Public Policy, UC Berkeley. Served on qualifying paper committee, January 2010.

PhD committee for Gabrielle Wong-Parodi, Energy and Resources Group, UC Berkeley. Qualifying examination May 11, 2009.

PhD committee for Aaron P. Hurst, Electrical Engineering. Completed Spring 2008. *Sequential Optimization for Low Power*. Also served on qualifying examination committee May 2007.

PhD qualifying examination committee for Carla Peterman, Energy and Resources Group, UC Berkeley. Qualifying examination February 2008.

PhD committee for Greg Nemet, Energy and Resources Group, UC Berkeley (Co-Chair with Dan Kammen). Completed Spring 2007, now Assistant Professor at University of Wisconsin, Madison. *Policy and innovation in low-carbon energy technologies*. Qualifying examination September 2005. Also served on Master's committee, Completed Spring 2004.

PhD qualifying examination committee for Nihar Shah, Mechanical Engineering, UC Berkeley. Qualifying examination November 2006.

Master's committee for Cyrus Wadia, Energy and Resources Group, UC Berkeley. Completed Spring 2006. *Can We Build A Better Solar Cell With Nanocomposites?*

PhD committee for Ayyana Chakravarthula, Mechanical Engineering, UC Berkeley. Completed Fall 2005. *Nano-scale mechanical properties of biomedical polymers, and, A case study of the medical device approval process*.

Master's committee for Malini Ranganathan, Energy and Resources Group, UC Berkeley. Completed Spring 2005. *Can agricultural cooperatives become energy producers too? Challenges and prospects for efficient cogeneration in India's cooperative sugar sector*.

PhD committee for Jennifer Stokes, Civil and Environmental Engineering, UC Berkeley. Completed May, 2004. *Life-Cycle Assessment of Alternative Water Supply Systems in California*.

PhD qualifying examination committee for Joanna Lewis, Energy and Resources Group, UC Berkeley. Qualifying examination Fall 2003.

Internal and External Service, Proposal Submissions

Co-chair of the 2013 Behavior, Energy, and Climate Change conference.

Active in several recent initiatives by LBNL/EETD, including: (1) contributing materials to support EETD efforts on publications on the topic of sustaining long-term writing projects; (2) helping to develop new funding initiatives with Earth Sciences Division; (3) helping to organize and raise the profile of a new economics sub-group within the EES group; (4) helping facilitate collaboration within the CC2.0 LDRD; (5) helping scope the research terrain in potential strategic initiative areas; and (6) helping build an EETD presence in sustainable transportation research.

Taylor, M.R. et. al. "A Community Network-Based Empirical Research Laboratory for the Effective Support of Large-Scale Solar Technology Diffusion." Concept paper submitted to DOE SEEDS program July 2012.

Sanstad, A., Morrow, W., and Taylor, M.R. "Enhancing Energy Technology R&D Planning with Advanced Life-Cycle Analysis and Energy Modeling." Unsuccessful ARPA-E proposal March 2012.

Thornton, D. and Taylor, M.R. "Who Spares the Air and Why? Understanding the Behavioral Economics of Voluntary Action in Air Pollution Mitigation." Unsuccessful CARB research concept, February 2012.

Collins, W., Hubbard, S., McMahon, J., Dale, L., Quinn, N.W.T., Birkholzer, J.T., **Taylor, M.R.**, Salve, R., Fitts, G., Finsterle, S.A., et. al. "Advancing Integrative Assessment of a Climate- and Salinity-Impacted River Basin: Towards Resilient Water Systems for Balanced Ecological, Agricultural, Urban, and Energy Use." Unsuccessful NSF proposal Fall 2011.

Acting Institutional Representative for the Goldman School of Public Policy at the Association of Public Policy Analysis and Management meeting, November 6, 2008, Los Angeles, CA.

"Implementing the Low Carbon Fuel Standard." Co-investigator, PI Michael O'Hare. *California Air Resources Board*, September 2008. (Revised October 2007 proposal, PI Alex Farrell).

"Cap-and-Trade Programs and Invention for Climate Safety." PI. Unsuccessful proposal to the *Hellman Family Faculty Fund* at UC Berkeley. 2008

"Anticipatory and Preventive Toxicology Lead Campus." Associate Director, PI: Chris Vulpe. Unsuccessful proposal to *UC Toxic Substances Research & Training Program*, 2008.

"Collaborative Research: Managing Technological Change at the Intersections of Urban Infrastructure Systems." Co-investigator with PI Patrick Gurian, Drexel University. Unsuccessful *NSF* Proposal, 2008.

"CEIN: Center for Predicting the Interactions of Nanomaterials with the Environment (CPINE): A Pre-Proposal Submitted in Response to the RFP for a Center for the Environmental Implications of Nanotechnology." Co-investigator with PI: Vicki Colvin, Rice University. Unsuccessful *NSF* Proposal, December 2007 (Pre-proposal accepted for full submission).

"Nanotechnology and Sustainable Development." Co-investigator with PI Connie Chang-Hasnain. Unsuccessful *NSF IGERT* Proposal, September 2007. (Pre-proposal given high priority by NSF after winning UC Berkeley competition).

"State Difference in Energy Deployment." Advisory Board Member, P.I. Elizabeth Wilson, University of Minnesota. Multi-year *NSF* award, funds received Fall 2007.

"Policy, Entrepreneurship, and the Development of Biofuels Markets." Co-investigator with PI Peter Menell. Unsuccessful proposal to UC Berkeley *Energy Biosciences Institute*, 2007.

"California Laboratory for Climate Response." Chair of leadership team for this effort within the unsuccessful proposal to the CPUC to start the *California Institute for Climate Solutions* (formerly the California Climate Institute). April 2007.

"Technical and Behavioral Foundations of Energy Efficient Consumption." Co-investigator with PI Paul Wright. Unsuccessful *NSF IGERT* Proposal March 2006.

"University of California Berkeley & Merced Center for Energy Efficiency Research." Participant with PI Paul Wright. Unsuccessful proposal to *California Clean Energy Fund (CalCEF)*. December 2005.

"California, Renewable Energy Generation, and the Returns to Innovation." PI, unsuccessful proposal to *UC Energy Institute*. 2005.

"The Success of the Toyota Prius – Does Government Matter?" PI, unsuccessful proposal to the *Hellman Family Faculty Fund* at UC Berkeley. 2005.

"Distributed Energy Technologies - Transforming Energy Systems." Co-investigator, PI's Dan Kammen and Alex Farrell. Unsuccessful *NSF IGERT* Proposal. 2005. (Revised proposal from 2004).

Member, Admissions Committee, GSPP 2004.

Member, Committee on the Impact on the GSPP Curriculum of Increased Enrollment, GSPP 2002-03.

“Analysis of Innovation and Government Actions in Climate Change Mitigation and Adaptation Technology in California.” PI, unsuccessful proposal for a *Junior Faculty Research Grant* (UCB). 2003.

Participant in UC Berkeley Strategic Initiatives. Fall 2002.

- Environment
- Society and Technology

“GSPP Environmental Policy and Implementation Program.” Co-investigator, PI Lee Friedman. Unsuccessful teaching proposal to the *Luce Foundation*. Spring 2002.

Reviewer

- Journals: *Ecological Economics*; *Energy Economics*; *Environmental Science and Technology*; *Energy Journal*; *Regulation and Governance*; *Energy Policy*; *Research Policy*; *Review of Policy Research*; *Public Administration*
- Publishing House: Oxford University Press
- Granting entities: National Science Foundation; Environmental Protection Agency
- Other: University of Michigan Graham Institute’s Environmental Sustainability Multidisciplinary Research Program

Member (active or recent)

The Association of Women in Water, Energy, and Environment (AWWEE); The Academy of Management (AOM); The Association of Public Policy and Management (APPAM); The American Association for the Advancement of Science (AAAS); The Association of Environmental and Resource Economists (AERE); The American Association of University Women (AAUW)

Other

Invited participant for “Energy Efficiency Policy and Innovation,” an ECEEE/CLASP workshop. Brussels, Belgium. December 5, 2001. Workshop was canceled.

“*Tilting at Windmills? Individual Inventors and Clean Energy Technologies and Policies.*” Accepted presentation at the Association of Public Policy and Management (APPAM) Annual Meeting, Boston, MA on November 6, 2010. Unable to attend.

Invited keynote speaker at “Podcar City: San José, Innovating Sustainable Communities.” October 28, 2010. Unable to attend.

Invited speaker at “Power Generation: Research, Development and Deployment of New Electricity Technologies” panel at “The Energy Technology Lifecycle – from Lab to Commercialization” conference sponsored by CMEA Ventures and Lawrence Livermore National Laboratory. February 20, 2009. Unable to attend.

Team Lead, with Ed Vine and Catherine Wolfram, of “Policy, Business Models, and Program Evaluation” of the Buildings Innovation Workshop, February 2009.

Invited speaker at an NSF Nanoscale Interdisciplinary Research Team (NIRT) Working Group meeting “NIRT: Evaluating Oversight Models for Active Nanostructures and Nanosystems: Learning from Past Technologies in a Societal Context” at University of Minnesota. Meeting held May 20 and 21, 2008. Unable to attend.

“Cap-and-Trade Programs and Innovation for Climate Safety.” Accepted for presentation at the Greening of Industry Network conference, Netherlands, June 2008. Unable to attend.

Informal advisor to Berkeley Center for Law & Technology (BCLT) \$700,000 project (awarded Fall 2006) from the Ewing Marion Kauffman Foundation to examine the relationship between intellectual property and entrepreneurship, particularly in the information technology, biotechnology, and clean technology industries.

Invited to be a witness at a full Committee hearing of the Senate Committee on Environment and Public Works entitled, "Legislative Hearing on America's Climate Security Act of 2007, S. 2191." November 8, 2007. Unable to attend.

Invited to participate on a panel entitled "Does It Matter (to Science/Technology) Who Wins the Mid-Term U.S. Congressional Elections?" at the "World Technology Summit" sponsored by the World Technology Network in San Francisco. Nov. 3, 2006. Unable to attend.

Collaborator with the Climate Policy Project of the Socio-Economic Research Center at the Central Research Institute of the Electric Power Industry (CRIEPI) in Japan. Summer 2006-Spring 2008.

Collaborator with the Sonoma County Water Agency on sustainability projects. May 2006-2010.

Invited participant at national Workshop on Nanotechnology Governance at Michigan State University, September 2006. Unable to attend.

Invited speaker at a funder's briefing at the California Endowment on emerging technologies, including nanotechnology. September 2006. Unable to attend.

Invited participant at Institute for the Future workshop to map the boundary between innovative economic practices and emerging ecological and biological knowledge. September 2006. Unable to attend.

Invited speaker at a program on the impacts of nanotechnology at the San Francisco Exploratorium. August 2006. Unable to attend.

Organizer. Co-Sponsored Talk by Mark Trexler for the GSPP Center for Environmental Public Policy and the Climate Policy Seminar. November 18, 2004.

Discussant, *Population and Environment* graduate seminar. Agricultural and Resource Economics. November 20, 2002.